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CANADIAN PACIFIC RAILWAY COMPANY
Office of the General Agricultural Agent

CROP BULLETIN NO. 6

Winnipeg, Manitoba, Friday, May 31st, 1946.

(For location of Districts mentioned below see cover map on back)

WEATHER

Cool to unusually hot weather has prevailed in the Prairie Provinces during the past week, temperatures rising to and above the ninety degree mark at some points, mainly in Manitoba and Saskatchewan. It has been much cooler in Western Saskatchewan and in Alberta since Wednesday. Precipitation in Manitoba consisted of scattered light showers, in Saskatchewan light to heavy showers in parts of Southern, Central and North-Eastern portions, and moderately heavy rains in the North-West, and in Alberta general moderate to heavy rains, most moisture falling in the South-West, West-Central and in the North-Central.

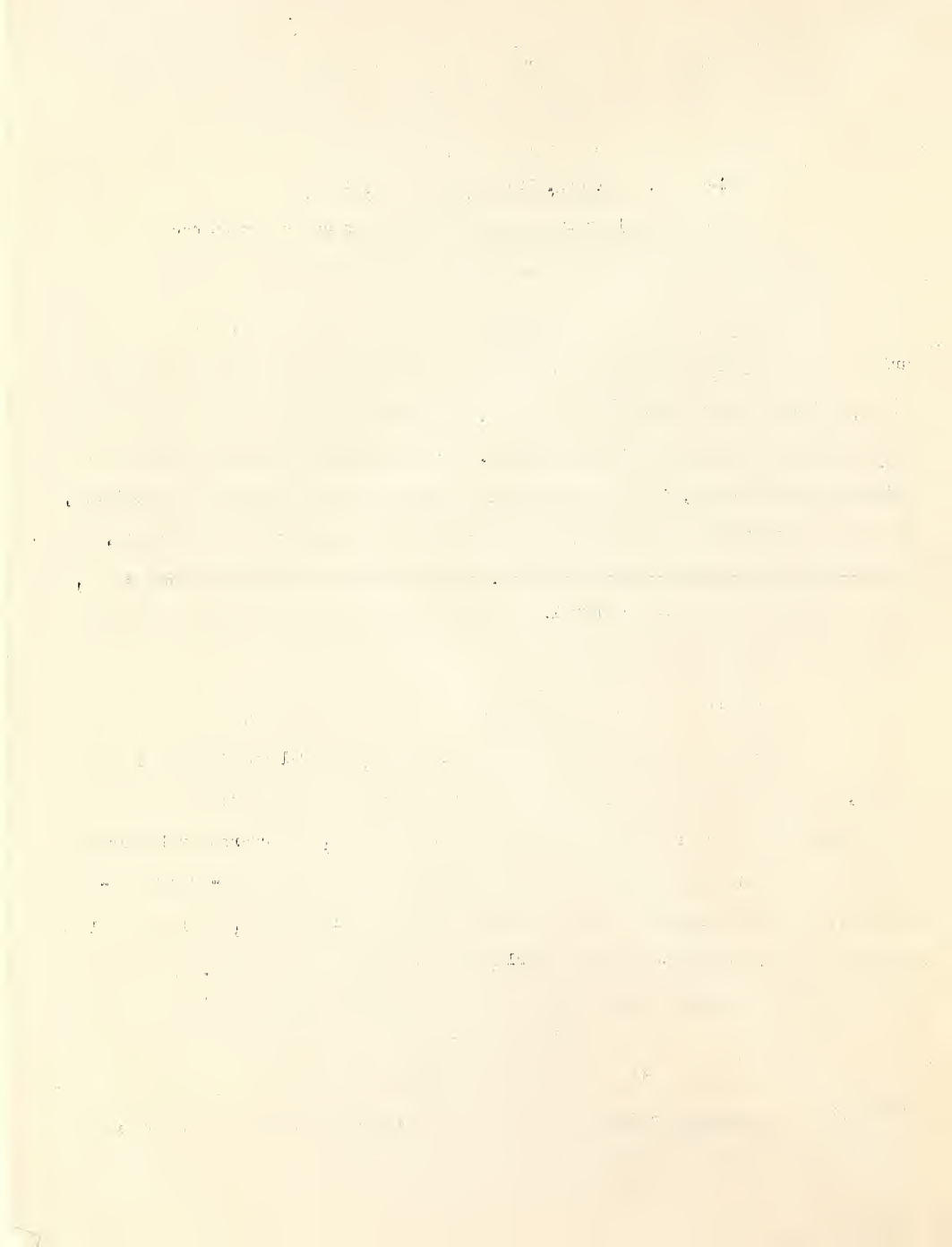
SEEDING

With the exception of a small percentage yet to be completed in a few districts in Northern Saskatchewan and in South-Western, Central and in North-Central Alberta, seeding of the 1946 wheat crop is finished (last year in Manitoba 94% completed at corresponding date, Saskatchewan 95% and Alberta 92%), and coarse grains are nearing that point, operations being finished to the following extent - Manitoba - oats 95%, barley 96% (last year 61 and 65%), Saskatchewan - oats 96%, barley 95% (last year 79 and 77%), Alberta - oats 95%, barley 93% (last year 73 and 73%).

MOISTURE AND GROWTH

MANITOBA

In Manitoba with several days of high temperatures and rainfall practically negligible soil is becoming very dry and general rain is required for more rapid



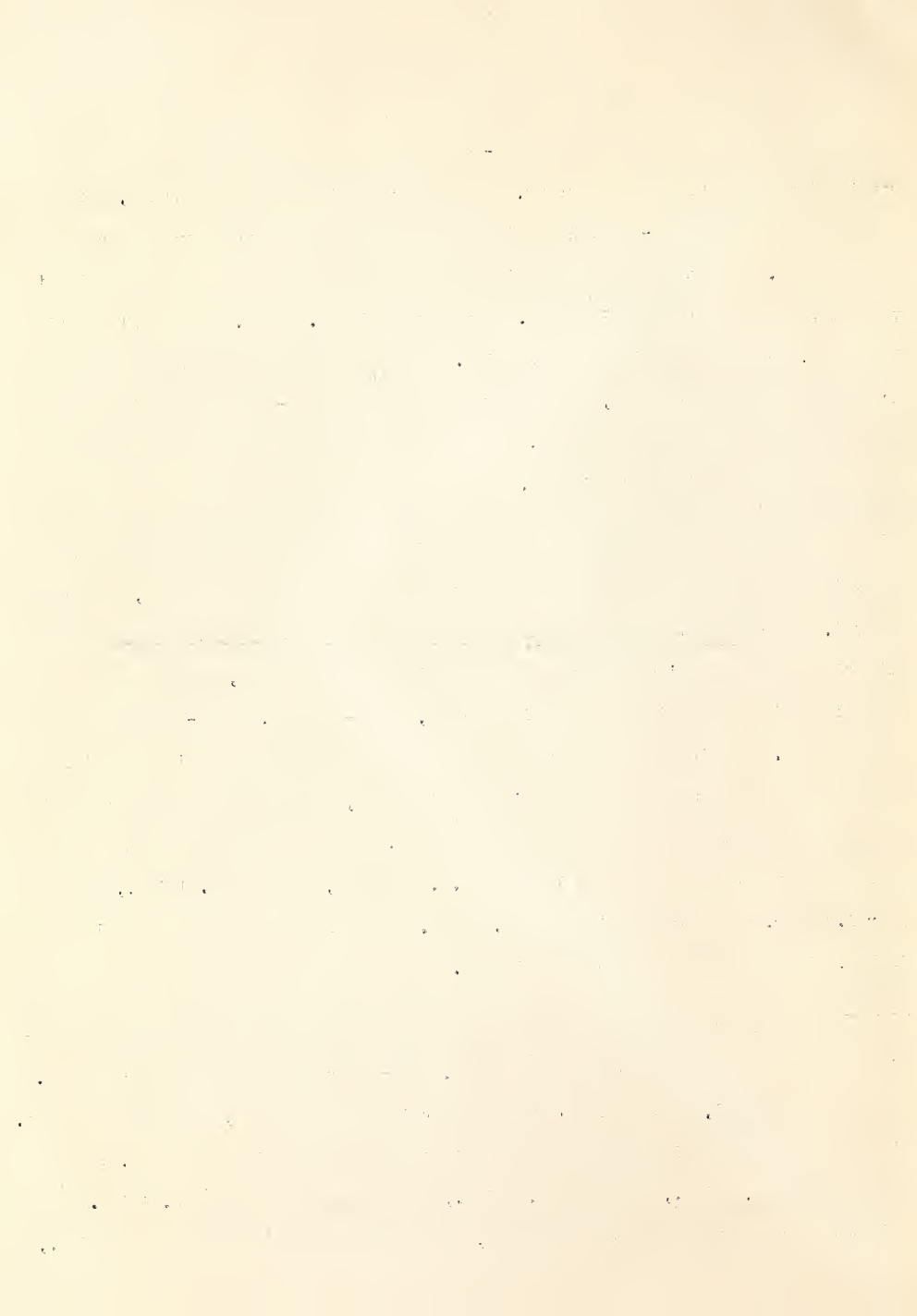
germination and advancement of crops, particularly of the late sown grains, being badly needed in the East-Central and in many districts in the Southern portion of the Province. The average precipitation at 20 representative points from April 1st to 8 A.M. May 27th has been 1.37 ins. as compared with 2.73 ins. in a similar period last year, and a normal figure of 2.53 ins. Market gardens in the Winnipeg area are urgently in need of moisture, especially for the acreage re-seeded following extensive damage by frosts early in the month. Wheat varies from 1 to 5 inches in height with an average of approximately 3 inches.

SASKATCHEWAN

In Saskatchewan there has been little alleviation of the dry top soil conditions, with the exception of local heavy showers in parts of Central, South-Central, West-Central, and moderately heavy rains in the North-West, and practically all points in the Province report that more moisture is required, the need for a general soaking rain being stressed in Central, South-Central, South-West and in the West-Central. Germination and growth have been exceedingly backward in the drier areas on account of unsatisfactory moisture situation, and in some localities seeding of flax has been delayed awaiting receipt of rain. The average precipitation at 41 representative points from April 1st to 8 A.M. May 27th, has been 1.01 ins., last year 1.97 ins. and a normal figure of 2.24 ins. Wheat ranges in height from 1 to 5 inches, with an average of around $2\frac{1}{2}$ inches.

ALBERTA

In Alberta as a result of moderately heavy to heavy rains moisture conditions are materially improved in the South, West-Central and in the North-Central. In the East-Central, while rainfall was lighter it was beneficial, but more is needed. The average precipitation at 32 representative points from April 1st to 8 A.M. May 27th has been .74 ins., last year 2.08 ins., and a normal figure of 2.41 ins. The height of wheat varies from 1 to 6 inches, with an average of slightly over $2\frac{1}{2}$ ins.,



more advanced development being in the South.

Slight to 5% damage by cutworms and wireworms is reported in some districts in extreme West-Central Saskatchewan and in extreme East-Central Alberta.

DETAILED INFORMATION FROM REPRESENTATIVE POINTS IN PROVINCES
(For location of points mentioned below see cover map on back)

MANITOBA

- Emerson - Moderately warm to hot, no rain, all wheat and 90 to 100% oats and barley seeded, wheat up 2 to 3 ins., moisture fair, rain needed.
- Deloraine - Moderately warm to hot, .05 in. rain, windy, all wheat and 90 to 100% oats and barley seeded, wheat up 2 to 5 ins., moisture fair, need more rain.
- Reston - Moderately warm to hot, no rain, all wheat and 85 to 100% oats and barley seeded, wheat up 2 to 4 ins., moisture fair, rain needed, badly in places.
- Virden - Moderately warm to hot, no rain, 100% wheat, oats and barley seeded, wheat up 2 to 4 ins., top soil very dry, need rain, no damage.
- Brandon - Moderately warm to hot, no rain, 100% wheat and 85 to 100% oats and barley seeded, wheat up 3 to 4 ins., moisture fair to good, rain needed, badly South-West of here.
- Portage la Pr. - Moderately warm to hot, .02 in. rain, all wheat and 85 to 100% oats and barley seeded, wheat up 2 to 5 ins., moisture fair to good, more rain needed.
- Minnedosa - Moderately warm to hot, light shower, all wheat and 60 to 100% oats and barley seeded, wheat up 2 to 4 ins., condition of crop favorable but more rain needed.
- Russell - Moderately warm to hot, no rain, 100% wheat, oats and barley seeded, wheat up 3 ins., moisture fair to good, more rain needed.

SASKATCHEWAN

- Broadview - Moderately warm to hot, no rain, all wheat and 90 to 100% oats and barley seeded, wheat up 2 to 3 ins., condition of crop favorable but more rain needed.
- Regina - Moderately warm to hot, .10 in. rain, all wheat and 85 to 100% oats and barley seeded, early sown wheat up 2 to 4 ins., moisture fair and rain needed, particularly North and West of here.
- Arcola - Moderately warm to hot, no rain, all wheat and 80 to 100% oats and barley seeded, wheat up 2 to 3 ins., moisture fair to good, rain needed.
- Weyburn - Moderately warm to hot, no rain, all wheat and 70 to 100% oats and barley seeded, early wheat up 2 to 4 ins., moisture poor to good, rain needed, badly West of here, and in some districts South.
- Assiniboia - Hot to moderately warm, .57 in. rain, 100% wheat, oats and barley seeded, wheat up 1 to 4 ins., moisture poor to fair, improved locally and South of here in places, more rain needed, some damage due to previous dry conditions.

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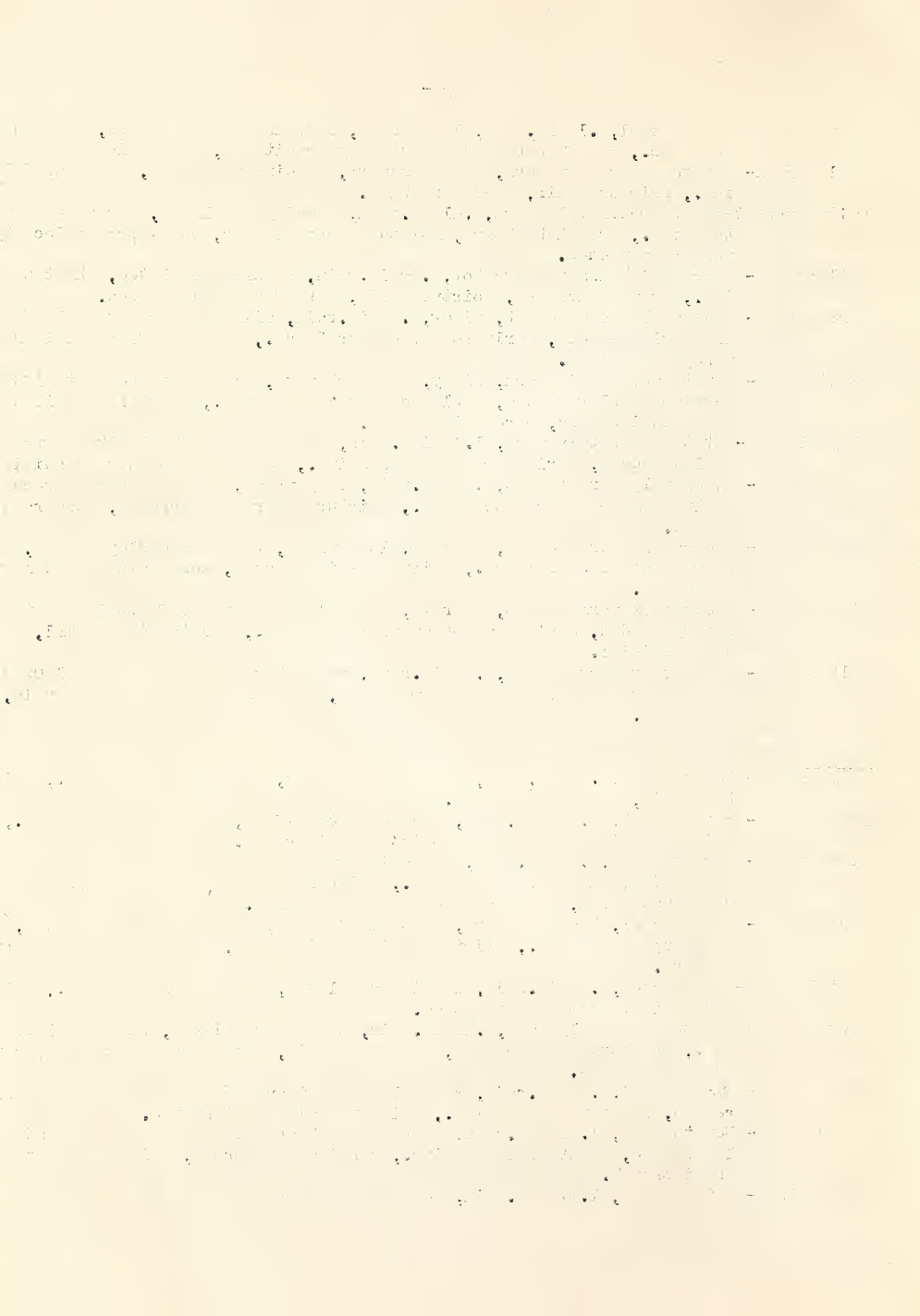
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- Shaunavon - Hot to cool, .10 in.rain, 100% wheat, oats and barley seeded, wheat up 1 to 4 ins., growth backward account dry conditions, more rain needed badly.
- Maple Creek- Hot to moderately warm, heavy showers, seeding completed, wheat up 3 to 5 ins., moisture fair, need more rain.
- Swift Current-Hot to moderately warm, .41 in.rain, seeding completed, early wheat up 1 to 3 ins., growth backward, moisture poor to fair, but improved locally, more rain needed.
- Outlook - Moderately warm to very hot, .20 in.rain, seeding completed, wheat up 2 ins., growth backward, moisture fair, more rain badly needed.
- Kerrobert - Moderately warm to hot, windy, .25 in.rain, all wheat and 90 to 100% oats and barley seeded, early sown wheat up 2 ins., moisture fair and improved, more rain needed.
- Wilkie - Hot to moderately warm, windy, heavy showers, all wheat and 80 to 100% oats and barley seeded, early sown wheat up 2 ins., moisture conditions fair and improved, more rain needed.
- Lloydminster-Hot to moderately warm, 1.10 ins.rain, all wheat and 70 to 100% oats and barley seeded, early sown wheat up 2 ins., favorable moisture conditions.
- Saskatoon - Moderately warm to hot, .30 in.rain, 100% wheat, oats and barley seeded, early sown wheat up 2 to 3 ins., moisture fair and improved, more rain needed.
- Lanigan - Moderately warm to hot, no rain, 100% wheat, oats and barley seeded, early sown wheat up 2 to 3 ins., moisture fair to good, more rain needed now, no damage.
- Tisdale - Moderately warm to hot, no rain, 95 to 100% wheat and 75 to 100% oats and barley seeded, early sown wheat up 1 to 2 ins., germination normal, rain be beneficial.
- Melfort - Moderately warm to hot, .02 in.rain, 95 to 100% wheat and 75 to 100% oats and barley seeded, early sown wheat up, moisture conditions favorable, no damage.

ALBERTA

- Manyberries- Hot to cool, .05 in.rain, seeding completed, wheat up 2 to 4 ins., moisture fair, more rain needed.
- Lethbridge - Hot to cool, 1.51 ins.rain, seeding completed, wheat up 2 to 5 ins., moisture fair to good and considerably improved.
- High River - Warm to cool, .50 in.rain, 95 to 100% wheat and 65 to 100% oats and barley seeded, wheat up 2 to 4 ins., moisture fair to good and improved North and South, more rain needed East of here.
- Bassano - Hot to cool, heavy showers, 80 to 100% wheat, oats and barley seeded, wheat up 2 to 4 ins., moisture fair and improved, more rain needed East of here.
- Medicine Hat-Hot to cool, .72 in.rain, seeding completed, wheat up 2 to 4 ins., moisture fair to good and improved.
- Empress - Hot to moderately warm, .10 in.rain, seeding completed, wheat up 1 to 4 ins., moisture poor to fair, need more rain, slight to 5% damage by cut-worms in places.
- Acme - Hot to cool, .50 in.rain, 98 to 100% wheat and 95 to 100% oats and barley seeded, wheat up 1 to 3 ins., moisture fair and improved.
- Red Deer - Hot to cool, 1.78 ins.rain, 95 to 100% wheat and 60 to 100% oats and barley seeded, wheat up 1 to 2 ins., germination normal, moisture favorable and improved.
- Coronation - Hot to cool, 1.47 ins.rain, 90 to 100% wheat and 75 to 100% oats and



- Coronation (cont'd.) - barley seeded, early sown wheat up 1 to 3 ins., germination fair to good, moisture now favorable and greatly improved.
- Wetaskiwin - Hot to cool, heavy showers, all wheat and 70 to 100% oats and barley seeded, early sown wheat up 1 to 2 ins., germination fair to good, moisture considerably improved.
- Edmonton - Hot to cool, .52 in. rain, all wheat and 60 to 100% oats and barley seeded, wheat up 1 to 2 ins., germination spotty to good, moisture fair to good and improved.
- Hardisty - Hot to cool, windy, heavy showers, 95 to 100% wheat and 70 to 100% oats and barley seeded, early sown wheat up 1 to 2 ins., moisture fair, need rain.
- Willington - Hot to cool, heavy showers, all wheat and 50 to 100% oats and barley seeded, early sown wheat up 1 to 3 ins., germination even, moisture favorable.

Peace River District (Northern Alberta Rlwy.) - Wheat seeding now completed, ninety percent of other grains also sown, crops showing from one to four inches above ground with growing conditions ideal, heavy rains have fallen in all areas during past twenty-four hours.

BRITISH COLUMBIA

During the past week the weather in the Interior of the Province has varied from hot to moderately warm accompanied by showers and heavy rains, and on the whole conditions have been favorable for all growth. Although the set of fruit on cherry trees is below expectations in some districts other stone fruits continue to show indications of large yield, apples appear to be setting well, and the outlook at present is promising in most areas, but the size of the crop is uncertain until after the June drop takes place. Strawberries are in full bloom and raspberries are budding out. Vegetables and grains are making satisfactory growth, movement of head lettuce from Armstrong is expected to commence at the end of the present week. Alfalfa at Enderby is now about ready for cutting. Cutworms have been active in scattered localities, but re-planting has eliminated to some extent crop reduction from this cause. On the Lower Mainland the weather has been warm with showers and moderately heavy rains. Strawberries are developing well and the first movement is expected about June 10th. Raspberries appear promising and an increase of about thirty percent is anticipated in the yield of both raspberries and strawberries as compared with the 1945 crop. The planting of vegetables is nearing completion.



DETAILED REPORTS AS WIRED ON MAY 29TH ARE AS FOLLOWS:
(For location of points mentioned below see cover map on back)

- Cranbrook - Crop conditions much the same as last week, except that we have had two days of rain and still raining, grass up five inches ahead of previous years, potato beetle control starting June 1st, weather warm.
- Creston - Good set of fruit in all tree varieties, large crop expected. Strawberries in full bloom and raspberries budding out, good crop predicted. Winter wheat growing strongly with small percentage injured by snow water. Spring wheat increased acreage and all seeded, slight increase in field pea acreage, all seeded and majority emerged. Increased seedings in vegetables, moisture conditions good. Very slight frost injury in isolated spots throughout all crops.
- Nelson - Weather has been fine and warm all week but with exception shower 25th and 27th, making moisture conditions very favorable. Some damage reported to strawberries by cut worms. Cherries not so good as formerly expected as some damage was caused by winter frost. Other conditions look good.
- Nakusp - Weather continues dry with increased irrigation water supply ample, apple trees in full bloom, while peach and cherry blooms about over. Cherry crop expected about a week earlier than last year.
- Kelowna - Weather past week mostly clear and warm, cloudy over week-end with heavy showers 25th. Water continuing to rise, cherry crop now estimated at about fifty percent, prospects of other crops favorable.
- Summerland - Weather very warm 27th and 28th, steady rain favorable for crops, good crop in sight, cherries progressing well, no pests reported, lumber strike may cause shortage of packing boxes.
- West Summerland - Weather this week very helpful to all crops with several light rains and steady rain all night May 27th. Soft fruits including cherries forming very well, with trees bearing very good crop, as yet no pests reported.
- Penticton - Weather during past week warmer, becoming unsettled with some rain in later portion. Latest estimates on cherry crop indicate that crop will not come up to previous expectations. Although very heavy blossom there has been a poor set, probably due to cool weather and present estimate is from 50 to 75% of last year. Apricots, peaches and pears have set well and should be very heavy. Too early yet to give estimate apples until June drop, but at present promises well.
- Osoyoos - Weather past week has been quite variable with strong winds, hot days and several showers with a heavy rain 27th of great value to growers. Some damage being reported from cutworms, outlook continues good.
- Oliver - Apples medium crop over all. Delicious and Rome varieties good, Winesap light to medium, Cantaloups - last plants being set out in field without hot caps, but for most part under hot caps, doing well. Apricots good

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle.

3. The third part is devoted to the case of a system of particles.

4. In the fourth part, we consider the case of a system of particles in a magnetic field.

5. The fifth part is devoted to the case of a system of particles in a magnetic field.

6. In the sixth part, we consider the case of a system of particles in a magnetic field.

7. The seventh part is devoted to the case of a system of particles in a magnetic field.

8. In the eighth part, we consider the case of a system of particles in a magnetic field.

9. The ninth part is devoted to the case of a system of particles in a magnetic field.

10. In the tenth part, we consider the case of a system of particles in a magnetic field.

11. The eleventh part is devoted to the case of a system of particles in a magnetic field.

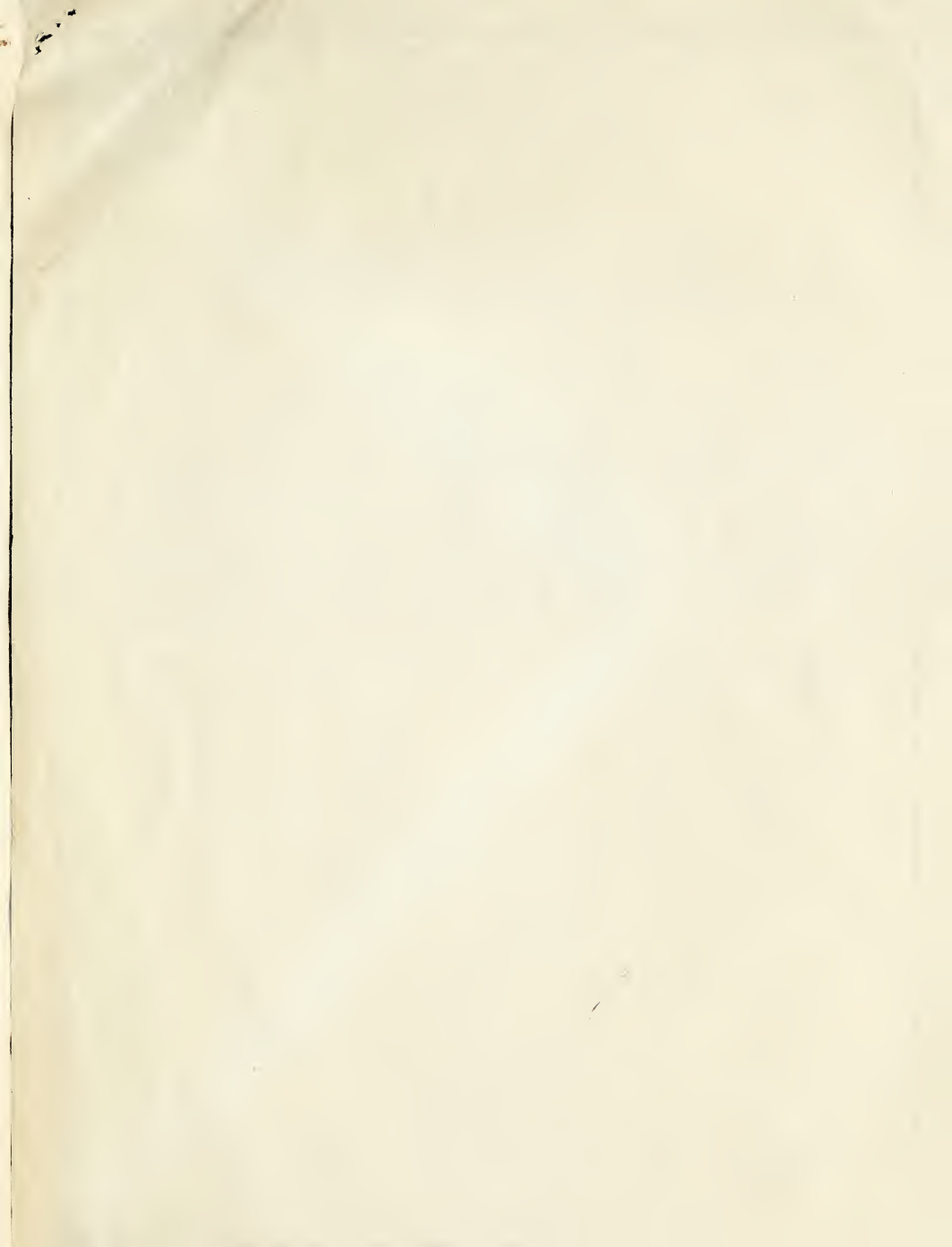
12. In the twelfth part, we consider the case of a system of particles in a magnetic field.

- Oliver (cont'd.) - crop, fruit sizing very well, cherries-Bings light to medium, Lamberts fair to good, some rust in evidence. Cucumbers - plants mostly out of hot caps and doing well, first sets in evidence on early patches, wind damage in some areas. Peaches good crop in all varieties. Pears very large crop. Slight frost markings expected in some areas. Prunes medium to good crop, recent Aphis damage in evidence. Potatoes doing well. Tomatoes - all plants in field, mostly doing well except in wind swept areas and planting being reduced and plants retarded. Cutworms active but replanting has largely eliminated crop reduction from this cause. Zucca melons - plants all out, many out of hot caps and doing well.
- Armstrong - Weather very hot all week until 27th, several hours steady rain during night of 27th, which will greatly benefit all crops which were beginning to suffer from lack of top moisture. Spring wheat and peas are a bit spotty but should be about average, expect commence shipping lettuce express first of month, this crop a splendid one.
- Enderby - We had one light shower of rain and another heavy one 27th, grain holding its own, very healthy color, Alfalfa has grown well, some cutting will start in about a week. Peas and late Spring crops doing well.
- Salmon Arm - Weather past week part cloudy to clear, heavy 12 hour rain night of 27th, all gardens and orchards now soaked with moisture, all orchards setting heavy crop apples, stone fruits and pears, cherries light some parts, alfalfa and grains making good growth, alfalfa laid flat by recent rain on lowlands.
- Kamloops - Weather past week very changeable, part cloudy and warm, light showers, planting completed, larger acreage than last year, plenty of water for irrigation.
- Ashcroft - Crop conditions continue normal with all crops making satisfactory growth, some local showers but rain still needed generally throughout the district.
- Agassiz - Weather conditions fine, warm with light showers during past week, some parts district. Seeding has been completed, pasture lands excellent, strawberries will be on the market in week to ten days time if weather keeps fine, all other small fruits looking good.
- Mission - Weather moderate, sufficient moisture, strawberries look very good and forming nicely, first movement expected June 10th, indications heavy movement to prairies by express. Raspberries look promising, estimate increase thirty percent both strawberries and raspberries. Planting of vegetables be completed first week June, increase in peas and beans slight, decrease corn.

THOS. S. ACHESON

General Agricultural Agent





Districts referred to in Report
are shown in red on this Map.

WEEKLY CROP REPORT

of the

AGRICULTURAL DEPARTMENT

CANADIAN PACIFIC RAILWAY

(WESTERN LINES)

THOS. S. ACHESON
General Agricultural Agent

